

**Notice of Allowability**

Application No.

10/764,800

Examiner

Mohammad Ali

Applicant(s)

FONTOURA ET AL.

Art Unit

2166

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/2/07.
2. ☒ The allowed claim(s) is/are 1-3, 8-13, 18-23 and 28-30 (Renumbered as 1-18).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 4/18/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Mohammad Ali  
Primary Examiner

### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/2/07 has been entered.

2. After a search and a thorough examination of the present application and in light of the prior art made of records, claims 1-3, 8-13, 18-23 and 28-30 (Renumbered as 1-18) are allowed.

Claims 4-7, 14-17, and 24-27 have been cancelled.

### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney, Janaki K. Davda (Reg. No. 40,684) on April 18, 2007.

**Please amend the claims 1, 4, 11, 14, and 24 which was filed on 3/2/07 as follows:**

1. (Currently Amended) A method for indexing data, comprising:
  - receiving different sections of a document at different times, wherein the different sections include a context section and an anchor text section;
  - generating sort keys for each token of multiple tokens in the different sections, wherein the sort keys are used to create posting lists that simultaneously are ordered by token and by document identifier for each token, wherein a sort key includes a token type, a token, a document identifier, a document section, and an offset in a document;
  - and
  - for each of the multiple tokens:
    - determining if a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata;
    - when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and
    - when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

4. (Cancel)

11. (Currently Amended) A computer system including logic for indexing data, comprising:

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a processor; and receiving a token;

receiving different sections of a document at different times, wherein the different sections include a context section and an anchor text section;

generating sort keys for each token of multiple tokens in the different sections, wherein the sort keys are used to create posting lists that simultaneously are ordered by token and by document identifier for each token, wherein a sort key includes a token type, a token, a document identifier, a document section, and an offset in a document; and

for each of the multiple tokens:

determining if a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata;

when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and

when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

14. (Cancel)

21. (Currently Amended) An article of manufacture comprising one of hardware logic and a computer readable storage medium including a program for indexing data,

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wherein the hardware logic or program causes operations to be performed, the operations comprising:

receiving different sections of a document at different times, wherein the different sections include a context section and an anchor text section;

generating sort keys for each token of multiple tokens in the different sections, wherein the sort keys are used to create posting lists that simultaneously are ordered by token and by document identifier for each token, wherein a sort key includes a token type, a token, a document identifier, a document section, and an offset in a document; and

for each of the multiple tokens:

determining if a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata;

when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and

when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

24. (Cancel)

***Reason for Allowance***

4. The prior art made of records does not teach or fairly suggest the combination of elements, as recited in independent claims 1, 11 and 21. More specifically, the prior art of records does not specifically suggest as amended by applicant's and an Examiner's amendment.

The dependent claims, being definite, further limiting, and fully enabled by the specification and are also allowed.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Contact Information**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is (571) 272-4105. The examiner can normally be reached on Monday-Thursday (7:30 am-6:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Mohammad Ali  
Primary Examiner  
Art Unit 2166

MA  
April 18, 2007